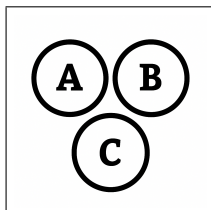


C

Independant Events

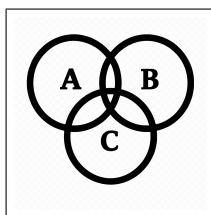
C



$$P(A) = 0.40$$

$$P(B) = 0.70$$

$$\square(A, B) = \text{thumbs up}$$



$$\square(A, B) \rightarrow P(A|B) = P(A)$$

$$\square(A, B) \rightarrow P(A \cap B) = P(A) \times P(B)$$

$$\square(A, B) \rightarrow P(A \cup B) = P(A) + P(B) - P(A) \times P(B)$$

$$\square(A, B) \rightarrow P(A \cup B) = 0.40 + 0.70 - 0.40 \times 0.70$$

$$\square(A, B) \rightarrow P(A \cup B) = 0.82$$



$$P(A) = 0.2$$

$$P(B) = 0.3$$

$$\square(A, B) = \text{thumbs up}$$

$$P(A^c \cap B^c) = ?$$

C

Independant Events

C



$$P(A^c) = 1 - P(A) = 1 - 0.2 = 0.8$$

$$P(B^c) = 1 - P(B) = 1 - 0.3 = 0.7$$

$$P(A^c \cap B^c) = P(A^c) \times P(B^c) = 0.8 \times 0.7 = 0.56$$